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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/758,621	01/14/2004		Yong Wang	12860B-CON	6121	
34833	7590	12/29/2004		EXAMINER		
FRANK R	OSENBEI	RG	PARSA, JAFAR F			
18 ECHO H MORAGA,				ART UNIT PAPER NUMBER		
MORAGA,	CA 9433	O		1621		

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commons	10/758,621	WANG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jafar Parsa	1621					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 15 October 2004.							
2a) This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>4,9-11 and 20-24</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>4,9,11-13 and 20-24</u> is/are rejected.	,—						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/14/2004.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6 6) Other:						

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DETAILED ACTION

1. Applicant's election with traverse of Group II, claims 4,9-11, 20 and 21 in the reply filed on 10/15/2004 is acknowledged. The traversal is on the ground(s) that an exothermic reaction is not materially different process, to the contrary, it is within the scope of the claims such as process claim 4. This is not found persuasive because Group II is directed to any chemical reaction therefore, the catalyzed reaction of claim 4 can be practiced with another materially different catalyst. The newly added and currently amended claims, 12, 13 and 22-24 fall within the elected claims of Group II and will be examined along with claims 4,9-11, 20 and 21.

The requirement is still deemed proper and is therefore made FINAL.

Specification

2. The disclosure is objected to because on page 12, line 13, the phrase "US patent application Serial NO. by TeGrotenhuis" is incomplete.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 4,9-11-13, 20, 21 and 22-24 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a series of chemical reactions given in page 14, does not reasonably provide enablement for many other chemical reactions such as, amidation, deamination, etherification, saponification and

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siliation and etc. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims. The catalyzed chemical reactions are very unpredictable and without any guidance as to what constitute the catalyzed chemical reaction using an engineered catalyst. It would take undo experimentation to try every catalyzed reaction with an engineered catalyst to see which chemical reaction would catalyzed effectively in the presence of an engineered catalyst with a support material having a through porosity and a layer comprising carbon nanotubes. It would also take undo experimentation to determine the reaction conditions that would make the catalyst function for that particular reaction.

4. Claims 4,9-11-13, 20, 21 and 22-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are vague and indefinite because the reactant and the final product are not known in the catalyzed reaction. The claims are vague as to the metes and bounds of what applicant considers as the instant invention.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double

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patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 4,9-11-13, 20, 21 and 22-24 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 6,713,519 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-20 of US patent 6,713,519 is directed to a species of a genus disclosed in the instant claimed invention. Therefore, claims 1-20 anticipate claims 4,9-11-13, 20, 21 and 22-24.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 4, 9, 20 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Moy et al (USPN 6,514,897 B1).

Moy teaches a catalyzed chemical reactions in the presence of a catalyst comprising a porous support have a mesoporous property including a carbon nanotubes which have predominantly diameters between 2.0 and 100 nm. The fluid phase catalytic reactions catalyzed include hydrogenation, hydrodesulfuriaation, hydrodenitrogenation,

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hydrodemetallization, hydrodeoxygenation, hydrodearomatization, dehydrogenation, hydrogenolyis, isomerization, alkylation, dealkylation, oxidation and transalkylation. See abstract, col. 3, lines 20-25 and col. 21, lines 15-23.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jafar Parsa whose telephone number is (571)272-0643. The examiner can normally be reached on 8 a.m.-4:30 p.m. (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on (571)272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J. PARSA
PRIMARY EXAMINER

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Jafar Parsa Primary Examiner Art Unit 1621

12/16/2004

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